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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/535,015	03/24/2000	Shunpei Yamazaki	0756-2131	3052
7590	05/19/2005		EXAMINER	
ROBINSON INTELLECTUAL PROPERTY LAW OFFICE 21010 SOUTHBANK STREET PMB 955 POTOMAC FALLS, VA 20165				CRANE, SARA W
		ART UNIT	PAPER NUMBER	2811

DATE MAILED: 05/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/535,015	YAMAZAKI ET AL.
	Examiner	Art Unit
	Sara W. Crane	2811

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.

- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.

- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.

- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on ____.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 2-13, 15-27 and 29-42 is/are pending in the application.

4a) Of the above claim(s) ____ is/are withdrawn from consideration.

5) Claim(s) ____ is/are allowed.

6) Claim(s) 2-13, 15-27, 29-42 is/are rejected.

7) Claim(s) ____ is/are objected to.

8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on ____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. ____.

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892) 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>2 Dec 2004</u>	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. ____. 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) 6) <input type="checkbox"/> Other: ____.
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DETAILED ACTION

The IDS of 28 December 2004 has been initialed by the examiner. The box of references was considered in the prosecution of the parent case, although it appears that none of the references were ever scanned for the IFW file.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 2-13, 15-27, and 29-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamazaki et al., 5,210,050, in view of Zimmer, 4,140,548, Zhang et al., 5,488,000, and further in view of Fehlner et al., 5,372,860, Yamazaki et al., 5,365,080, Yamazaki et al., 5,313,076, and Kataoka et al., 5,913,111.

See reasons of record, in particular in the previous Office action. With respect to the newly-added limitation requiring source and drain regions to extend through the semiconductor film, this is shown in Zhang et al, for example at Figure 2A. It would have been obvious to incorporate such source and drain regions into the thin film device of Yamazaki et al., 5,210,050, in order to avoid the processing difficulties associated with shallow source and drain diffusions.

Conclusion

Applicant notes that no one reference teaches all of the features recited together in the claims. Examiner agrees. But it seems to the examiner that each feature recited

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is known, and taught in the references as discussed in the record, and that Applicant is incorporating each feature into the device of the invention for the same reasons as taught in the references. This is the essence of obviousness. Applicant also apparently believes that the Zhang teaching regarding a double gate insulator would not be applicable to a TFT gate insulator, because the Zhang teaching is directed to MOS devices. The TFT devices considered here are a type of MOS device, having a gate electrode with a gate insulator, just as in the Zhang device. The improved gate dielectric of Zhang et al. would impart the same improved qualities to the TFT device of the base reference cited above.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Crane, whose telephone number is (571) 272-1652.

The supervisor for Art Unit 2811, Eddie Lee can be reached on (571) 272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sara W. Crane
Sara W. Crane
Primary Examiner
Art Unit 2811